

STW search history

(FILE 'HOME' ENTERED AT 13:43:08 ON 04 OCT 2006)

FILE 'AGRICOLA, MEDLINE, CAPLUS, BIOSIS' ENTERED AT 13:44:01 ON 04 OCT 2006

L1	13796 S SULFATASE
L2	109 S L1 AND GLUCOSAMINE-6
L3	86 S L2 AND (HUMAN OR HOMO)
L4	65 DUP REM L3 (21 DUPLICATES REMOVED)
L5	7 S L2 AND (PHARMACEUTI? OR FUS? OR HETEROLOGOUS)
L6	7 DUP REM L5 (0 DUPLICATES REMOVED)
L7	2 S L6 AND PY<2000
L8	4497 S GLUCKSMANN OR WILLIAMSON OR TSAI OR RUDOLPH-OWEN
L9	3 S L8 AND SULFATASE
L10	1 DUP REM L9 (2 DUPLICATES REMOVED)

	Type	Hits	Search Text
1	IS&R	6	((("6767727") or ("6534302") or ("6780627"))).PN.
2	IS&R	2	("7029895").PN.
3	BRS	4	"6562956"
4	BRS	2	"6797816"
5	BRS	1	"6913919"/
6	BRS	1	"6913919"
7	IS&R	3	((("6930170") or ("6953836") or ("6956108"))).PN.
8	IS&R	11	((("6930170") or ("6953836") or ("6956108") or ("6972185") or ("7018811") or ("7019116") or ("7029873") or ("7034106") or ("7034122") or ("7034136"))).PN.
9	BRS	2	"20030082546"
10	BRS	3	"20030147875"
11	BRS	2	"20050265987"
12	BRS	1985	sulfatase
13	BRS	2	"20060116508"
14	BRS	0	S13 and glucoseamine
15	BRS	415	S13 and glucosamine
16	BRS	5	S15 and glucosamine-6
17	BRS	398	S15 and human
18	BRS	46	S21 and sulfatase
19	BRS	26038	glucksmann or williamson
20	BRS	21	S22 and (glucosamine or glucosamine-6)
21	IS&R	1396	(435/196).CCLS.
22	BRS	73	(glucksmann or williamson or tsai or rudolph-owen) and sulfatase
23	BRS	66	S19 and human
24	BRS	21	S23 and human
25	BRS	14	sulf-1
26	BRS	2	"20040229314"
27	BRS	2	S26 and (biologically or biological)
28	BRS	3016	"11" and allelic
29	BRS	2	"20040229314"
30	BRS	1375	"12" and allelic
31	BRS	2	S28 and allelic
32	BRS	5	"7029895"
33	BRS	4	"6562956"
34	BRS	1	"6913919"
35	BRS	2	"20030082546"
36	BRS	2	"20030082546"

	DBs
1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
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34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
35	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	Hits	Search Text
37	BRS	2	S36 and (heterologous or fusion)
38	BRS	2	S36 and (heterologous or fusion or fused)
39	IS&R	1396	(435/196).CCLS.
40	BRS	37	S40 and (pharmaceutical or fusion or fused or heterologous)
41	BRS	27	S40 and (pharmaceutical and (fusion or fused or heterologous))
42	BRS	14	"5695752" and (gst or tag or his)
43	BRS	36	S40 and (fusion or fused or heterologous or n-terminal or n-terminus or terminal or terminus)
44	BRS	32	S40 and (gst or tag or his)
45	BRS	29	"5695752"
46	BRS	14	"5695752" and (gst or tag or his)
47	BRS	46	S39 and sulfatase
48	BRS	18	S47 and (gst or tag or his or signal)
49	BRS	4	"6562956"

	DBs
37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
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42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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Robertson et al - Sep 10 No: 3

KJH UGU

N-acetylglucosamine-6-sulfatase (EC 3.1.6.14) precursor - human
N;Alternate names: chondroitinsulfatase; N-acetyl-D-glucosamine-6-sulfate 6-sulfohydrolase
C;Species: Homo sapiens (man)
C;Date: 22-Nov-1993 #sequence_revision 27-Oct-1995 #text_change 05-Oct-2004
C;Accession: S27164; A31672
R;Robertson, D.A.; Freeman, C.; Morris, C.P.; Hopwood, J.J.
Biochem. J. 288, 539-544, 1992
A;Title: A cDNA clone for human glucosamine-6-sulphatase reveals differences between a
A;Reference number: S27164; MUID:93098807; PMID:1463457
A;Accession: S27164
A;Molecule type: mRNA
A;Residues: 1-552
A;Cross-references: UNIPROT:P15586; UNIPARC:UPI00000000CC8; GB:Z12173; EMBL:M23657; NID:1000000000
A;Note: parts of this sequence, including the amino end of the mature protein, were deleted
A;Note: a form is described with a proteolytic cleavage releasing residue 222 as the mature protein
R;Robertson, D.A.; Freeman, C.; Nelson, P.V.; Morris, C.P.; Hopwood, J.J.
Biochem. Biophys. Res. Commun. 157, 218-224, 1988
A;Title: Human glucosamine-6-sulfatase cDNA reveals homology with steroid sulfatase.
A;Reference number: A31672; MUID:89061714; PMID:3196333
A;Accession: A31672
A;Molecule type: mRNA
A;Residues: 178-552
A;Cross-references: UNIPARC:UPI00001728D2; GB:Z12173; EMBL:M23657; NID:g31866
C;Genetics:
A;Gene: GDB:GNS
A;Cross-references: GDB:120006; OMIM:252940
A;Map position: 12q14-12q14
A;Note: defects in this gene can cause mucopolysaccharidosis type III D, Sanfilippo D
C;Function:
A;Description: hydrolyzes N-acetyl-D-glucosamine 6-sulfate units in heparan sulfate and chondroitin-6-sulfate
C;Superfamily: N-acetylglucosamine-6-sulfatase
C;Keywords: glycoprotein; lysosomal storage disease; lysosome; Sanfilippo disease; sulfatase
F;1-43/Domain: signal sequence #status predicted
F;44-552/Product: N-acetylglucosamine-6-sulfatase #status predicted
F;91/Modified site: 3-oxoalanine (Cys) #status predicted
F;111,117,183,198,210,279,317,362,387,405,449,480/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;422/Binding site: carbohydrate (Asn) (covalent) #status experimental

Query Match 17.5%; Score 829.5; DB 1; Length 552;
Best Local Similarity 26.6%; Pred. No. 3e-46;
Matches 226; Conservative 83; Mismatches 171; Indels 369; Gaps 22;

Qy	4	SCC-ALVLAVLGTTELLGSLCSTVRSPRFRGRIQQERKNIRPNIIILVLTDDQDVELGSLQV	62
		: : :	
Db	21	SCSPALLLVLG---GCL-----GVFGVAAGTRRPNVVLLLTDDQDEVLGGMTP	66
Qy	63	MNKTRKIMEHGGA TFINAFVTTPMCCPSRSSMLTGKYVHNHNVYTN--NENCSSPSWQAM	120
		: : : : : : : : : :	
Db	67	LKKTKALIGEMGMTFSSAYVPSALCCPSRASILTGYPHNHVVNNTLEGNCSSKSQKI	126
Qy	121	HEPRTF-AVYLNNITGYRTAFFGKYLNEYNG-----SYIPPGWREWGLIKNSRFYNYTV	173
		: : : : : : : :	
Db	127	QEPNTFPAILRSMCGYTTFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSKYNYTL	186
Qy	174	CRNGIKEKHGFYAKDYFTDLITNESINYFKMSKRMPHRPVMMVISHAAPHGPEDSAPQ	233
		: : : : : : : : : : :	
Db	187	SINGKARKHGENYSVDYLTDVLANVSLDFLDYKSNF---EPFFMMIATPAHPSPWTAAPQ	243
Qy	234	FSKLYPNASQHITPSYNYPNMDKHW-IMQYTGPMLPIHMEFTNILQRKRLQTLMSVDDS	292
		: : : : : : : : : :	

Db	244	YQKAFQNVFAPRNKNFN-IHG TNKHWLIRQAKTPMTNSSIQFLDNAFRKRWQTLLSVDDL	302
Qy	293	VERLYNMLVETGELENTYIIYTADHGYHIGQFGLVKGKSMFYDFDIRVPFFIRGPSVEPG	352
		: : : : : : :	
Db	303	VEKLVKRLEFTGELNNTYIFYTSDNGYHTGQFSLPIDKRQLYEFDIKVPLLVRGPGIKPN	362
Qy	353	SIVPQIVLNIDLAPTILDIAGLD-TPPDVDGKSVLKLLDPEKPGNRFRTNKKAKIWRDTF	411
		: : : :	
Db	363	QTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSLLPIL-----	400
Qy	412	LVERGKFLRKKEESSKNIQQSNHLPKYERVKELCQQARYQTACEQPGQKWQCIEDTSGKL	471
		: : :	
Db	401	---RG-----ASNL-----TWL-----	409
Qy	472	RIHKCKGPSDLLTVRQSTRNLYARGFHDKDKECSCRESGYRASRSQRKSQRQFLRNQGTP	531
		:	
Db	410	-----SDVL-----	413
Qy	532	KYKPRFVHTRQTRSLSVFEFEIYDINLEEEELQVLQPRNIAKRHDEGHKGPRDLQASS	591
		:	
Db	414	-----VEYQGE-----	419
Qy	592	GGNRGRMLADSSNAVGPPPTTVRVTHKCFILPNDSIHCERELYQSARAWKDHKAYIDKEIE	651
		:	
Db	420	---GRNVTD-----PT-----	427
Qy	652	ALQDKIKNLREVRGHLKRRKPEECSCSKQSYNKEKGVKKQEKLKSHLHPFKEAAQEVDS	711
Db	428	-----CPSLS-----	432
Qy	712	KLQLFKENRRRRKKERKEKRRQRKGEECSLPGLT-CFTHDNNHWQTAPFWNLGSFCACTS	770
		:	
Db	433	-----PGVSQCFPD-----CVCED	446
Qy	771	SNNNTYWCLRTVNETHNLFCEF--ATGFLEYFDMNTDPYQLTNTVHTVERGILNQLHVQ	828
		: : : : : : : : : : : : : : : :	
Db	447	AYNNTYACVRTMSALWNLQYCEFDDEVFVEVYNLTADPDQITNIAKTIDPELLGKMNYR	506
Qy	829	LMELRSCQG	837
		:	
Db	507	LMMLQSCSG	515

Glucksman et al - See ID 10:3

RESULT 4

US-10-426-776-11

; Sequence 11, Application US/10426776

; Patent No. 7029895

; GENERAL INFORMATION:

; APPLICANT: Glucksman, Maria Alexandra

; APPLICANT: Williamson, Mark J.

; APPLICANT: Tsia, Fong-Ying

; APPLICANT: Rudolph-Owen, Laura A.

; APPLICANT: Kapeller-Libermann, Rosana

; APPLICANT: Meyers, Rachel E.

; APPLICANT: Chiang, Lillian Wei-Ming

; APPLICANT: Hunter, John Joseph

; APPLICANT: Wood, Andrew

; APPLICANT: Jenkins, Lorayne P.

; TITLE OF INVENTION: NOVEL 27411, 23413, 22438, 23553,

; TITLE OF INVENTION: 25278, 26212, NARC SC1, NARC 10A, NARC 1, NARC 12, NARC 13,

; TITLE OF INVENTION: NARC17, NARC 25, NARC 3, NARC 4, NARC 7, NARC 8, NARC 11,

; TITLE OF INVENTION: NARC 14A, NARC 15, NARC 16, NARC 19, NARC 20, NARC 26, NARC

; TITLE OF INVENTION: 27, NARC 28, NARC 30, NARC 5, NARC 6, NARC 9, NARC 10C, NARC

; TITLE OF INVENTION: 8B, NARC 9, NARC2A, NARC 16B, NARC 1C, NARC 1A, NARC 25,

; TITLE OF INVENTION: 86604 AND 32222 MOLECULES AND USES THEREFOR

; FILE REFERENCE: MPI03-062OMNIM

; CURRENT APPLICATION NUMBER: US/10/426,776

; CURRENT FILING DATE: 2003-04-30

; PRIOR APPLICATION NUMBER: 10/229,662

; PRIOR FILING DATE: 2002-08-28

; PRIOR APPLICATION NUMBER: 09/795,691

; PRIOR FILING DATE: 2001-02-28

; PRIOR APPLICATION NUMBER: 60/185,517

; PRIOR FILING DATE: 2000-02-28

; PRIOR APPLICATION NUMBER: 10/105,992

; PRIOR FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER: 09/406,045

; PRIOR FILING DATE: 1999-09-27

; PRIOR APPLICATION NUMBER: 10/314,881

; PRIOR FILING DATE: 2002-12-09

; PRIOR APPLICATION NUMBER: 09/773,426

; PRIOR FILING DATE: 2001-01-31

; PRIOR APPLICATION NUMBER: 09/495,823

; PRIOR FILING DATE: 2000-01-31

; PRIOR APPLICATION NUMBER: 09/692,785

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/161,188

; PRIOR FILING DATE: 1999-10-22

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 56

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 871

; TYPE: PRT

; ORGANISM: Homo Sapiens

US-10-426-776-11

Query Match 100.0%; Score 4729; DB 3; Length 871;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 871; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKYSCCALVLAVLGTELLGSLCSTVRSRFRGRIQQERKNIRPNILVLTDQDVELGSL 60
 |||
 Db 1 MKYSCCALVLAVLGTELLGSLCSTVRSRFRGRIQQERKNIRPNILVLTDQDVELGSL 60

Qy	61	QVMNKRIRKIMEHGGATFINAFVTT	PMCCPSRSSMLTGKYVHNHN	VYTNNE	CSSPSWQAM	120
Db	61	QVMNKTRKIMEHGGATFINAFVTT	PMCCPSRSSMLTGKYVHNHN	VYTNNE	CSSPSWQAM	120
Qy	121	HEPRTFAVYLNNTGYRTAF	FGKYLNEYNGSYI	PPGWREWLGLIKNSRFYNYT	VCRNGIKE	180
Db	121	HEPRTFAVYLNNTGYRTAF	FGKYLNEYNGSYI	PPGWREWLGLIKNSRFYNYT	VCRNGIKE	180
Qy	181	KHGFDYAKDYFTDLITNES	INYFKMSKRMYPHRPVM	MVISHAAPHGPEDSAPQFSKLYPN	240	
Db	181	KHGFDYAKDYFTDLITNES	INYFKMSKRMYPHRPVM	MVISHAAPHGPEDSAPQFSKLYPN	240	
Qy	241	ASQHITPSYNYAPNMDKHWIMQYT	GPMLPIHMEFTNILQ	RKRLQTLMSVDD	SVERLYNML	300
Db	241	ASQHITPSYNYAPNMDKHWIMQYT	GPMLPIHMEFTNILQ	RKRLQTLMSVDD	SVERLYNML	300
Qy	301	VETGELENTYIIYTADHGYHI	GQFGLVKGKSM	PYDFDIRVPFFIRGPSVEPGSIVPQIVL	360	
Db	301	VETGELENTYIIYTADHGYHI	GQFGLVKGKSM	PYDFDIRVPFFIRGPSVEPGSIVPQIVL	360	
Qy	361	NIDLAPTILDIAGLDT	PPVDGKSVLKL	LDPEKPGNRFRTNKKAKIWRD	TLVERGKFLR	420
Db	361	NIDLAPTILDIAGLDT	PPVDGKSVLKL	LDPEKPGNRFRTNKKAKIWRD	TLVERGKFLR	420
Qy	421	KKEESSKNIQQSNHLPKYERVKEL	CQQARYQTACEQPGQKWQCI	EDTSGKLR	IHKCKGPS	480
Db	421	KKEESSKNIQQSNHLPKYERVKEL	CQQARYQTACEQPGQKWQCI	EDTSGKLR	IHKCKGPS	480
Qy	481	DLLTVRQSTRNLYARGFHD	KDKECSCRESGYRASRSQRKSQRQFLRNQGT	PKYKPRFVHT	540	
Db	481	DLLTVRQSTRNLYARGFHD	KDKECSCRESGYRASRSQRKSQRQFLRNQGT	PKYKPRFVHT	540	
Qy	541	RQTRSLSVFEFEGEIYDIN	LEEEELQVLQPRNIAKRHDEGHKGPRDLQASSGGNRGRMLA	600		
Db	541	RQTRSLSVFEFEGEIYDIN	LEEEELQVLQPRNIAKRHDEGHKGPRDLQASSGGNRGRMLA	600		
Qy	601	DSSNAVGPPTTVRVTHKCFILPND	SIHCERELYQSARAWKDHKAYIDKEIEALQDKIKNL	660		
Db	601	DSSNAVGPPTTVRVTHKCFILPND	SIHCERELYQSARAWKDHKAYIDKEIEALQDKIKNL	660		
Qy	661	REVRGHLKRRKPEECSCSKQS	YYNKEKGVKKQEKLKSHLHPFKEAAQEVD	SKLQLFKENN	720	
Db	661	REVRGHLKRRKPEECSCSKQS	YYNKEKGVKKQEKLKSHLHPFKEAAQEVD	SKLQLFKENN	720	
Qy	721	RRRKKEKEKRRQRKGEECSL	PGLTCFTHDNNHWQTAPFWNLGSF	CACTSSNNNTYWCLR	780	
Db	721	RRRKKEKEKRRQRKGEECSL	PGLTCFTHDNNHWQTAPFWNLGSF	CACTSSNNNTYWCLR	780	
Qy	781	TVNETHNFLFCEFATGFLEY	FDMNTPYQLTNTVHTVERGILNQLHVQLMELRSCQGYKQ	840		
Db	781	TVNETHNFLFCEFATGFLEY	FDMNTPYQLTNTVHTVERGILNQLHVQLMELRSCQGYKQ	840		
Qy	841	CNPRPKNLDVG	NKDGGSYDLHRGQLWDGWEG	871		
Db	841	CNPRPKNLDVG	NKDGGSYDLHRGQLWDGWEG	871		